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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,806	07/23/2003	Jean-Claude Ducasse	10792.4801	7761
22235	7590	07/15/2005		EXAMINER
MALIN HALEY AND DIMAGGIO, PA				SHARMA, SUJATHA R
1936 S ANDREWS AVENUE				
FORT LAUDERDALE, FL 33316			ART UNIT	PAPER NUMBER
			2684	

DATE MAILED: 07/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/625,806	DUCASSE, JEAN-CLAUDE	
	Examiner	Art Unit	
	Sujatha Sharma	2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 July 2003.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-40 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-40 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>11/24/2003</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

Claim Objections

1. Claims 27-29 are objected to because of the following informalities:

In claims 27-29, in line 4, “maintaining” should be replaced by – maintaining an acceptable IF signal--.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-8,11-13,15-17,19,20-23,25-30,32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admission of prior art, page 1, paragraph 4 (hereafter APA) in view of Lim [US 2003/0119463]

Regarding claims 1,30 the applicant in his APA teaches a system for terrestrial transmission of RF signals comprising:

- an antenna, where said antenna includes an active device and a passive device, where the passive device receives RF signals; See page 1, paragraph 4
- a decoder connected to the antenna, where decoder receives and analyzes IF signals from said antenna. See page 1, paragraph 4

However, the APA does not disclose a method wherein based on the analysis of the IF signals, sending a command to the active device in order to maintain an acceptable IF signal.

However, Lim, in the same field of endeavor, teaches a method of analyzing the IF signals in a RF receiver and based on the analysis of the IF signals, sending a command to the active device in order to maintain an acceptable IF signal. See fig. 4, page 2, paragraphs, 25 and 26

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teaching of Lim in the decoder of APA in order to ensure linearity of a received signal.

Regarding claim 2, APA discloses a system where said active device down converts the RF signals to the IF signals. See page 1, paragraph 4

Regarding claim 3, APA further discloses a system where said active device includes at least one amplifier. See page 1, paragraph 4

Regarding claim 4, APA further discloses a method a where the at least one amplifier applies a gain onto the RF signals based upon commands from the decoder. See page 1, paragraph 7.

Regarding claim 5, APA discloses a method where the at least one amplifier applies a gain onto the IF signals based upon commands from the decoder. See page 1, paragraph 7

Regarding claim 6, APA discloses a method where the at least one amplifier applies a gain onto the RF signals and IF signals based upon commands from the decoder. See page 1, paragraph 7

Regarding claim 7, APA discloses a system where the passive device receives RF signals from a satellite and a broadcast center. See page 1, paragraph 5

Regarding claims 8,33 APA discloses a system wherein the at least one amplifier includes at least one of a low noise amplifier and a low noise block converter. See page 1, paragraph 4.

Regarding claims 11,34 APA and Lim disclose all the limitations as claimed. However they do not disclose a method of using DiSEqC process for the commands.

However, the examiner takes official notice that Digital Satellite equipment control (DiSEqC) command is well known standard in Satellite communications.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to use this standard to ensure compatibility of system components.

Regarding claim 12, APA further discloses a method where the active device includes at least one RF signal amplifier and at least one IF signal amplifier. See page 1, paragraphs 4,7.

Regarding claims 13,32 APA as modified by LIM discloses a method of sending command to the RF amplifier section to selectively activate the RF amplifiers.

APA further discloses a method wherein the active device also consists of IF amplifier as discloses in page1, paragraph 7.

Therefore it would have been obvious to one with ordinary skill in the art at the timer the invention was made to provide the above teachings of LIM to APA to send command to the IF amplifier section in order to ensure linearity of a received signal.

Regarding claims 15,22 APA discloses method for a terrestrial transmission of RF signals comprising the steps of:

- receiving RF signals via an antenna; see page 1, paragraph 4
- downconverting RF signals to IF signals; See page 1, paragraphs 4,
- transmitting the IF signals via a wire to a decoder; see page, paragraphs 4,5

However, APA does not disclose a method of:

- transmitting commands via the wire to the antenna from the decoder upon receipt of the IF signals;
- adjusting the RF signals and the IF signals based upon the commands; and maintaining an acceptable IF signal for receipt by the decoder.

Lim, in the same field of endeavor, teaches a method of:

- transmitting commands via the wire to the antenna from the decoder upon receipt of the IF signals; See fig. 4, page 2, paragraphs, 25 and 26
- adjusting the RF signals based upon the commands; and maintaining an acceptable IF signal for receipt by the decoder. See fig. 4, page 2, paragraphs, 25 and 26

APA further discloses a method wherein the active device also consists of IF amplifier as discloses in page1, paragraph 7.

Therefore it would have been obvious to one with ordinary skill in the art at the timer the invention was made to provide the above teachings of LIM to APA to send command to the RF and IF amplifier section in order to ensure linearity of a received signal.

Regarding claim 16, APA further discloses a method a where the at least one amplifier applies a gain onto the RF signals based upon commands from the decoder. See page 1, paragraph 7

Regarding claims 17,23 APA discloses a system wherein the at least one amplifier includes at least one of a low noise amplifier and a low noise block converter. See page 1, paragraph 4.

Regarding claim 19, APA as modified by LIM discloses a method of sending command to the RF amplifier section to selectively activate the RF amplifiers.

APA further discloses a method wherein the active device also consists of IF amplifier as discloses in page1, paragraph 7.

Therefore it would have been obvious to one with ordinary skill in the art at the timer the invention was made to provide the above teachings of LIM to APA to send command to the IF amplifier section in order to ensure linearity of a received signal.

Regarding claim 20, APA discloses a system wherein the at least one amplifier includes at least one of a low noise amplifier and a low noise block converter. See page 1, paragraph 4.

Regarding claim 25, APA discloses a system where the passive device receives RF signals from a satellite and a broadcast center. See page 1, paragraph 5

Regarding claim 26, APA and Lim disclose all the limitations as claimed. However they do not disclose a method of using DiSEqC process for the commands.

However, the examiner takes official notice that Digital Satellite equipment control (DiSEqC) command is well known standard in Satellite communications.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to use this standard to ensure compatibility of system components.

Regarding claims 27-29, Lim discloses a method of sending command to the amplifier section to selectively activate the amplifiers to maintain the linearity of the received signal. See fig. 4, page 2, paragraphs, 25 and 26.

3. Claims 9,10,18,21,24,31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admission of prior art, page 1, paragraph 4 (hereafter APA) and Lim [US 2003/0119463] in view of Townsend [US 5,323,423].

Regarding claims 9,10,18,21,24,31 APA as treated in claim 1 discloses all the limitations as claimed. However, the APA does not disclose a method wherein the at least one amplifier may apply again of 20 dB to about 91 dB.

Townsend, in the same field of endeavor, teaches a method wherein the amplifier applies a gain 20 dB gain is used in order to provide a linear transfer function of the received signal.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of Townsend in the decoder of APA in order to ensure linearity of a received signal.

4. Claims 14,35, are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admission of prior art, page 1, paragraph 4 (hereafter APA) and Lim [US 2003/0119463] in view of James [US 2004/0060065].

Regarding claims 14,35 APA as modified by Lim discloses all the limitations as claimed. However they do not disclose a method where said commands and IF signals are transmitted upon a single wire connecting the decoder and antenna.

James in the same field of endeavor teaches a method where signals are transmitted from the antenna to the decoders via a single distribution cable. See page 1, paragraph 11.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of James to APA in order to minimize cable between the antenna and the decoder and thus reduce losses.

5. Claims 36-40, are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admission of prior art, page 1, paragraph 4 (hereafter APA) and Lim [US 2003/0119463] in view of Bargroff [US 2004/0214537] .

Regarding claim 36, APA discloses a system for terrestrial transmission of RF signals comprising:

- a plurality of antennas, where each antenna includes an active device and a passive device, where the passive device receives RF signals, and the active device down converts the RF signals to IF signals; see page 1, paragraph 4
- a plurality of master decoders, where each master decoder receives and analyzes the IF signals from each antenna. See page 1, paragraph 4

However, the APA does not disclose a method wherein based on the analysis of the IF signals, sending a command to the active device in order to maintain an acceptable IF signal.

Lim, in the same field of endeavor, teaches a method of analyzing the IF signals in a RF receiver and based on the analysis of the IF signals, sending a command to the active device in order to maintain an acceptable IF signal. See fig. 4, page 2, paragraphs, 25 and 26

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teaching of Lim in the decoder of APA in order to ensure linearity of a received signal.

Further APA as modified by LIM does not disclose the use of a distribution switch.

Bragroff, in the same field of endeavor, teaches the use of a distribution switch between the antenna and the end user decoders.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to use the distribution switch taught by Bragroff in the modified APA system in order to provide a method of signal distribution that is invariant to changes in signal powers.

Regarding claim 37, APA discloses a method where each active device of each antenna includes at least one amplifier and selectively applies a gain to at least one of the RF signals and IF signals based upon commands from each respective master decoder. See page 1, paragraph 7

Regarding claims 38,39 APA as modified by LIM discloses a method of sending command to the RF amplifier section to selectively activate the RF amplifiers.

APA further discloses a method wherein the active device also consists of IF amplifier as discloses in page1, paragraph 7.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of LIM to APA to send command to the IF amplifier section in order to ensure linearity of a received signal.

Regarding claim 40, Bragroff further discloses a system where said distribution switch (130 IN Fig. 1) transmits IF signal to at least one further distribution switch (170 in Fig.1), wherein at least one further decoder connects the distribution switch to the at least one further distribution switch. See paragraphs 37-47.

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yamamoto [US 2003/0148747]

Radio Base Station

Kushima [US 2004/0214545]

Antenna amplifier and shared antenna amplifier

Koyama [US 6,771,719]	Automatic gain control method and its system
Sato [US 2004/0248536]	Receiving circuit having improved distortion
characteristics	
Kraftt [US 2004/0028149]	Programmable integrated DiSEqC receiver
Williams [US 6,493,873]	Transmodulator with dynamically selectable
channels	

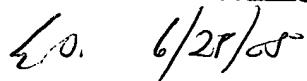
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 571-272-7886. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Sujatha Sharma
June 20, 2005

EDAN ORGAD
PATENT EXAMINER/TELECOMM.

 6/27/05